

graphically displaying said chamber geometry data; and
graphically displaying said electrophysiologic data.

3. A process for determining and displaying the location of a therapy catheter in a heart chamber comprising the steps of:

positioning a set of passive electrodes within said heart chamber;

positioning a set of active locator electrodes within said heart chamber, said locator electrodes being positioned on a therapy catheter;

supplying oscillating current to said set of active locator electrodes thereby generating an electric field in said heart chamber;

detecting said electric field at said passive electrode sites, generating field measurement data;

extracting in the frequency domain, from said field measurement data, that component of said field measurement data corresponding to locator electrode location and generating location data; and

graphically displaying said location data.

Remarks

Applicants have filed several continuing applications based on 08/387,832 filed 5/29/01, now issued as U.S. Pat. No. 6,240,307. This patent is partially defective or inoperative for the failure to claim priority to 08/376,067, filed 1/20/95, issued as 5,553,611, which was co-pending and shared an inventor. Applicants will be seeking reissue of 6,420,307 to correct this defect, thereby removing that patent as a reference against later cases in the chain of priority. The requested amendment is made to claim priority to that earlier application. The Examiner is asked to consider the reference and the propriety of the claim of priority under U.S.C. §120.

Claims 2 and 3 have been rejected for "obviousness" type double patenting, and upon the indication of allowability over the art, Applicant will file a terminal disclaimer to remove this basis for rejection.

Claim 1 has been rejected for "same invention" type double patenting. This claim has been cancelled.

Claim 2 and claim 3 have been rejected over Ben-Haim and Budd under section 103. Applicant contends that neither reference is Prior Art to the applicant. The instant case carries a claim of priority to US Serial Number 07/950,448 filed 3/29/94 now 5,291,549 and US Serial Number 07/949,690 filed 9/23/92 now 5,311,866. These applications predate Ben-Haim. Applicant notes that the Budd reference is in the chain of priority of the instant case.

Respectfully submitted,
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VERSION SHOWING CHANGES

1. (Cancel) A process for measuring electrophysiologic data in a heart chamber comprising the steps of:

positioning a set of passive electrodes within a patient's heart;

positioning a set of active electrodes within a patient's heart;

supplying oscillating current to said set of active electrodes thereby generating an electric field in said heart chamber;

detecting said electric field at said passive electrode sites, generating a set of electric field measurement data;

extracting in the frequency domain, from said field measurement data, that component of said field measurement data corresponding to chamber geometry and generating chamber geometry data;

extracting in the frequency domain, from said field measurement data, that component of said field measurement data corresponding to the underlying intrinsic electrophysiologic activity of the heart chamber, and generating electrophysiology data;

graphically displaying said chamber geometry data; and

graphically displaying said electrophysiologic data.

2. A process for measuring electrophysiologic data in a heart chamber comprising the steps of:

positioning a set of passive electrodes within patient's heart;

positioning a set of active electrodes within a patient's heart;

supplying oscillating current to said set of active electrodes thereby generating an electric field in said heart chamber;

detecting said electric field at said passive electrode sites, generating a set of field measurement data;

extracting in the time domain, from said field measurement data, that component of said field measurement data corresponding to the underlying electrophysiologic activity of the heart chamber, and generating electrophysiology data;

graphically displaying said chamber geometry data; and

graphically displaying said electrophysiologic data.

3. A process for determining and displaying the location of a therapy catheter in a heart chamber comprising the steps of:

positioning a set of passive electrodes within said heart chamber;

positioning a set of active locator electrodes within said heart chamber, said locator electrodes being positioned on a therapy catheter;

supplying oscillating current to said set of active locator electrodes thereby generating an electric field in said heart chamber;

detecting said electric field at said passive electrode sites, and generating field measurement data;

extracting in the frequency domain, from said field measurement data, that component of said field measurement data corresponding to locator electrode location and generating location data; and

graphically displaying said location data.